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DATE MAILED: 11/09/2009

## NOTICE OF ALLOWANCE AND FEE(S) DUE

52427 7590 11/09/2009 MUIRHEAD AND SATURNELLI, LLC 200 FRIBERG PARKWAY, SUITE 1001

WESTBOROUGH, MA 01581

EXAMINER
CHACE, CHRISTIAN
ART UNIT PAPER NUMBER
2187

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/935,844	09/23/1997	ROBERT WILSON	EMS-321US	9098

TITLE OF INVENTION: METHOD AND APPARATUS FOR IMPLEMENTING A REMOTE MIRRORING DATA FACILITY

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	02/09/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR	2	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
08/935,844	09/23/1997			ROBERT WILSON			EMS-321US	9098
TITLE OF INVENTION: )								
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nonprovisional	NO		\$1510	\$0	\$0		\$1510	02/09/2010
EXAMIN	ER		ART UNIT	CLASS-SUBCLASS	1			
CHACE, CH	RISTIAN		2187	711-162000	_			
1. Change of corresponden CFR 1.563.  Change of corresponden CFR 1.563.  The Address' indice PTO/SB/47; Rev 03-02.  Number is required.  3. ASSIGNEE NAME ANI PLEASE NOTE: Unless (A) NAME OF ASSIGN	adence address (or Chai 122) attached. ation (or "Fee Address" or more recent) attach D RESIDENCE DATA is an assignee is identi in 37 CFR 3.11. Comp	nge of ' Indicated, Use TO B	Correspondence ation form e of a Customer E PRINTED ON		o 3 registered pater tvely, le firm (having as a agent) and the nam orneys or agents. If printed.  pe)  patent. If an assign assignment.	nt attorn n memb nes of u no nan	per a 2p to ne is 3	ocument has been filed for
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<ol> <li>Change in Entity Status</li> <li>a. Applicant claims</li> </ol>	SMALL ENTITY statu	s. See	37 CFR 1.27.	☐ b. Applicant is no los				
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



# UNITED STATES PATENT AND TRADEMARK OFFICE

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MUIRHEAD AN	ND SATURNELLI, I	CHACE, CHRISTIAN		
	RKWAY, SUITE 100	ART UNIT	PAPER NUMBER	
WESTBOROUGH	I, MA 01581	2187		

DATE MAILED: 11/09/2009

# Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 1644 day(s). Any patent to issue from the above-identified application will include an indication of the 1644 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Application No. Applicant(s) 08/935.844 WILSON ET AL. Notice of Allowability Examiner Art Unit 2187 CHRISTIAN P CHACE -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to BPAI Decision 23 July 2009. 2. X The allowed claim(s) is/are 1-21, 23, 31-32, 34-52, 56-58, 32-63, 65-67, now renumbered 1-48, 50-51, and 49, respectively. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: a) $\square$ All 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_ 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: . . Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) I including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other . Christian P. Chace

SPE Art Unit: 2187 Application/Control Number: 08/935,844

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### DETAILED ACTION

This Office action has been issued in response to Decision from the Board of Patent Appeals and Interferences, as rendered 23 July 2009. It is important to note that claim 33 was inadvertently included in the Decision as a reversed rejection. However, the record is clear that claim 33 was canceled prior to appeal. Accordingly, this has been treated as a typographical error in the decision. Claims 22, 24-30, 53-55, and 59-60 are canceled in accordance with MPEP 1214.06. Claim 23 shall be amended as noted below. Claims 1-21, 23 (as amended herein), 31-52, 56-58, 62-63 and 65-66 (now renumbered 1-51, respectively) are allowed.

The period under 37 CFR 1.304 for seeking court review of the decision by the Board of Patent Appeals and Interferences rendered as noted supra has expired ad no further action has been taken by appellant. The proceedings as to the rejected claims are considered terminated; see 37 CFR 1.197(b).

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claims 22, 24-30, 53-55, and 59-60 are canceled in accordance with MPEP 1214.06.

Claim 23 shall be amended as follows:

23. A computer system comprising:

a central processing unit (CPU):

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a first storage system that is coupled to the CPU to store information written from the CPU;

a second storage system;

at least one communication link coupling the second storage system to the CPU, the at least one communication link including at least one wireless connection, wherein the at least one communication link extends between the first and second storage systems such that the second storage system is coupled to the CPU via the first storage system;

a mirroring controller, responsive to the information being written from the CPU to the first storage system, to mirror at least some of the information being written from the CPU to the first storage system in the second storage system by transferring the at least some of the information over the at least one communication link;

[The computer system of claim 22,] wherein the at least one communication link includes a network cloud that comprises an internet shared by at least one other resource.

The following is an examiner's statement of reasons for allowance:

Claims 1-21, 23 (as amended herein), 31-52, 56-58, 62-63 and 65-66 (now renumbered 1-51, respectively) are allowed for the reasons set forth in the Decision of the Board of Patent Appeals and Interferences, rendered 23 July 2009.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication should be directed to CHRISTIAN P. CHACE at telephone number (571)272-4190.

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/Christian P. Chace/ Supervisory Patent Examiner, Art Unit 2187 Christian P. Chace SPE Art Unit 2187 Page 4